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IN THE UNITED STATES  
PATENT AND TRADEMARK OFFICE

Attorney Docket No.: **Poly-46**

Applicants: **Stephen ARNOLD et al.**

Serial No.: **10/690,979**

Filing Date: **October 22, 2003**

Title: **ENHANCING THE SENSITIVITY OF A MICROSPHERE SENSOR**

Examiner: **Leon Y. Lum**

Group Art Unit: **1641**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

S I R:

**Information Disclosure Statement Transmittal**

The applicants respectfully request that the references listed on the attached PTO/SB/08A be considered in the examination of the above-identified application. A copy of each of these references, except for U.S. patents and patent application publications is enclosed. (See the notice, "Information Disclosure Statements May Be Filed Without Copies of U.S. Patents and Published Applications in Patent Applications Filed After June 30, 2003," Pre-OG Notices (July 11, 2003).)

The applicants reserve the right to establish that any of the references listed on the attached PTO/SB/08A are not prior art to the above-captioned application.

Since a first Office Action on the merits has not yet been received, the applicants assume that this Information Disclosure Statement should be considered under 37 C.F.R. §§ 1.97(b)(3). **Accordingly, it is believed that no fee is due.**

If, however, an Office Action on the merits has been mailed before the filing date of this Information Disclosure Statement, these references should be considered under 37 C.F.R. § 1.97(c).

**Certification Under 37 C.F.R. § 1.97 (e)(1)**

I hereby certify that each item of information contained in the information disclosure statement submitted herewith was first cited in a communication from the U.S. PCT Receiving Office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement.

No fee is believed due. However, in the event that a fee is due in order to have the Information Disclosure Statement submitted herewith considered, the Patent Office is authorized to charge said fee to the deposit account of Straub & Pokotylo, deposit account number 50-1049.

**Statement Under 37 C.F.R. § 1.704(d)**

Each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart application and that this communication was not received by any individual designated in

§ 1.56(c) more than thirty days prior to the filing of the information disclosure statement.



April 6, 2005

Respectfully submitted,

A handwritten signature of John C. Pokotylo in dark ink.

John C. Pokotylo, Attorney

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**CERTIFICATE OF MAILING under 37 C.F.R. 1.8(a)**

I hereby certify that this correspondence is being deposited on **April 6, 2005** with the United States Postal Service as first class mail, with sufficient postage, in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

A handwritten signature of John C. Pokotylo in dark ink, written over a horizontal line.

John C. Pokotylo

36,242  
Reg. No.

**Complete if Known**

**Publication Number:** 10/690,979  
**Filing Date:** October 22, 2003  
**First Named Inventor:** Stephen ARNOLD  
**Group Art Unit:** 1641  
**Examiner Name:** Leon Y. Lum

(use as many sheets as necessary)

Sheet	1	of	2	Attorney Docket No.: Poly-46
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Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Unique citation designation number. 2 See attached kinds of U.S. Patent Documents. 3 Enter Office that Issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the Indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16, if possible. 6 Applicant is to place a check mark here if English language translation is attached.

U.S. Department of Commerce Patent and Trademark Office		<i>Complete if Known</i>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>		Application Number:	10/690,979
		Filing Date:	October 22, 2003
		First Named Inventor:	Stephen ARNOLD
		Group Art Unit:	1641
		Examiner Name:	Leon Y. Lum
Sheet	2	of	2
		Attorney Docket No.:	Poly-46

OTHER REFERENCES - NON-PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume, issue number(s), publisher, country, where published, source	T <sup>2</sup>
	BA	Vollmer, Frank; Arnold, Stephen; Braun, Dieter; Teraoka, Iwao; "Multiplexed DNA Quantification by Spectroscopic Shift of Two Microsphere Cavities," Biophysical Journal, Volume 85, September 2003 (1974-1979).	
	BB	Cai, Ming; Hunziker, Guido; Vahala, Kerry; "Fiber-Optic Ad-Drop Device Based on a Silica Microsphere-Whispering Gallery Mode System," IEEE Photonics Technology Letters, Volume 11, No. 6, (June, 1999)	

Examiner Signature		Date Considered	
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